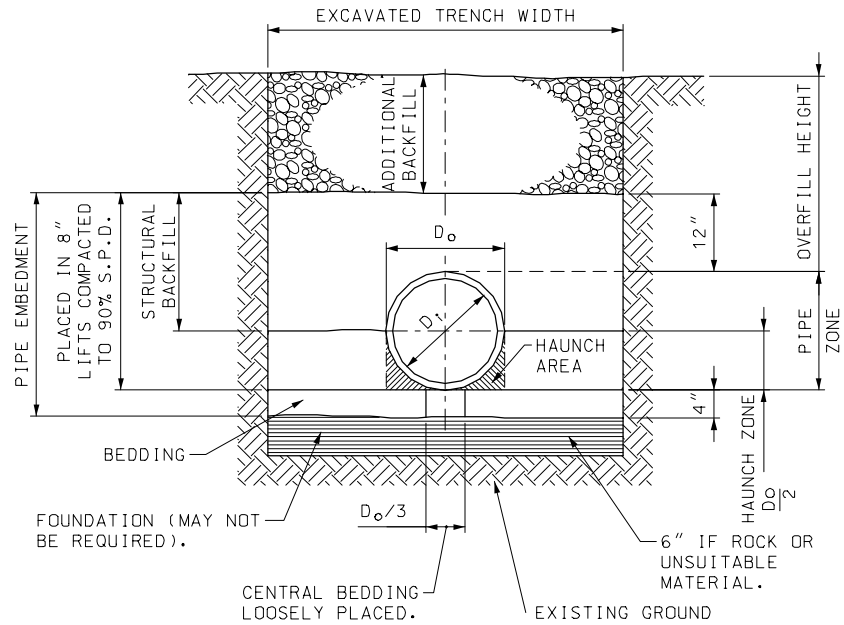
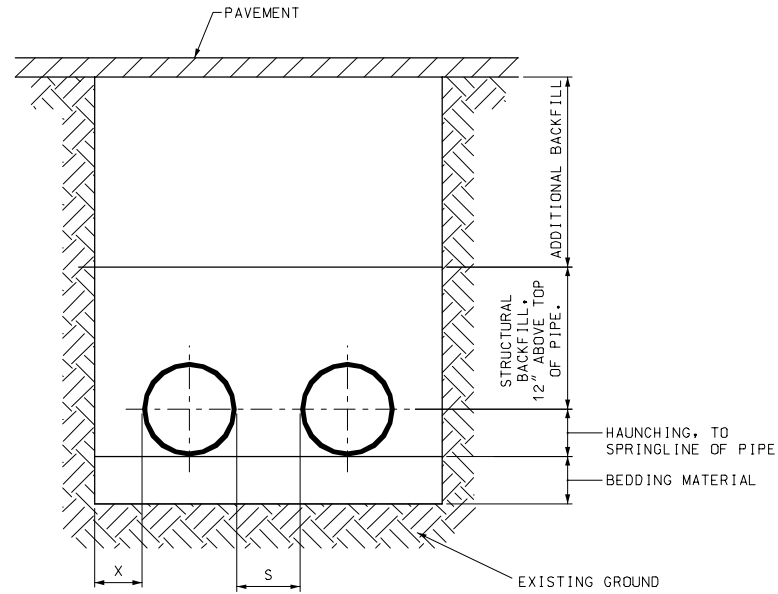


TYPICAL TRENCH DETAIL



MULTIPLE PIPE SPACING



PARALLEL PIPE INSTALLATION TYPICAL TRENCH CROSS-SECTION

SPECIFIED DIA OF PIPE (IN.)	MIN OVERFILL HEIGHT (FT)	MAX OVERFILL HEIGHT* (FT)	TRENCH WIDTH (IN.)
12	1	38	34
15	1	39	38
18	1	40	44
24	1	40	54
30	1	40	64
36	1	38	74
42	2	10	84
48	2	9	91

* MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE.

PIPE SIZE	S (IN.)	X (IN.)
12	12"	9"
15	12"	9"
18	12"	9"
24	12"	10"
30	15"	16"
36	18"	18"
42	21"	18"
48	24"	18"

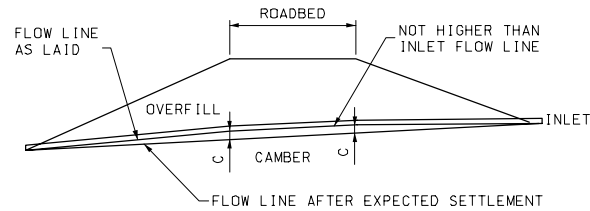
CONSTRUCTION SEQUENCE

1. PLACE BEDDING MATERIAL TO GRADE.
2. COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
3. INSTALL PIPE TO GRADE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
5. COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

- LEGEND -

D_i = NORMAL INSIDE DIAMETER OF PIPE.
 D_o = OUTSIDE DIAMETER OF PIPE.
 H = FILL COVER HEIGHT OVER PIPE (FEET)
 MIN. = MINIMUM
 = UNDISTURBED SOIL

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NOTE:

ON YIELDING SOIL, PIPE CULVERTS SHOULD BE PLACED ON A CAMBERED FLOW LINE. THE AMOUNT OF CAMBER WILL VARY WITH SOIL CONDITION AND SHALL BE SPECIFIED ON THE DESIGN PLANS.

TYPICAL CAMBERED FLOW LINE

TABLE II MINIMUM COVER FOR CONSTRUCTION LOADS				
PIPE DIA. (IN.)	MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS)			
	18-50	50-75	75-110	110-150
12-36	2.0	2.5	3.0	3.0
42-48	3.0	3.0	3.5	4.0

THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.

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